

FCC Test Report

Report No.: AGC00803180105FE03

FCC ID : 2AKHJ-S39

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Bluetooth Earphone

BRAND NAME : N/A

MODEL NAME : S39, S39A, S59, S22, S22-V, S22-L, S29

CLIENT: Shenzhen Hangshi Technology Co., Ltd

DATE OF ISSUE : Feb. 06, 2018

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	Manager / ® American	Feb. 06, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Hangshi Technology Co., Ltd		
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.		
Manufacturer	Shenzhen Hangshi Technology Co., Ltd		
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.		
Product Designation	Bluetooth Earphone		
Brand Name	N/A		
Test Model	S39		
Series Model	S39A, S59, S22, S22-V, S22-L, S29		
Difference description	All the same except for the model name		
Date of test	Jan. 30, 2018 to Feb. 05, 2018		
Deviation	None The state of		
Condition of Test Sample	Normal		
Report Template	AGCRT-US-BR/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By

Henry Zhang

Henry Zhang Zhuorui)

Feb. 05, 2018

Reviewed By

Forrest Lei(Lei Yonggang)

Feb. 06, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	4.33dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.1
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	S39_V2.0
Software Version	V1.0
Antenna Designation	Ceramic Antenna
Antenna Gain	2.5dBi
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
Metallior of Global 8 Alfred Millor of Co.	0.0	2402MHz
	1	2403MHz
下校 测	THE STATE OF THE S	CO CO
© Franco d Goodhi Con (8)	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
The transfer of the state of th	- 5 3 de la Company de la Comp	
of God Mester	77	2479 MHz
	78	2480 MHz

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

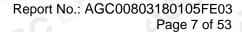
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
® # 1 donard	Low channel GFSK		
2 2 3	Middle channel GFSK		
3	High channel GFSK		
4	Low channel π /4-DQPSK		
Sand Company	Middle channel π /4-DQPSK		
6	High channel π /4-DQPSK		
7	Low channel 8DPSK		
# II. 18 # II.	Middle channel 8DPSK		
90	High channel 8DPSK		
10	BT Link		

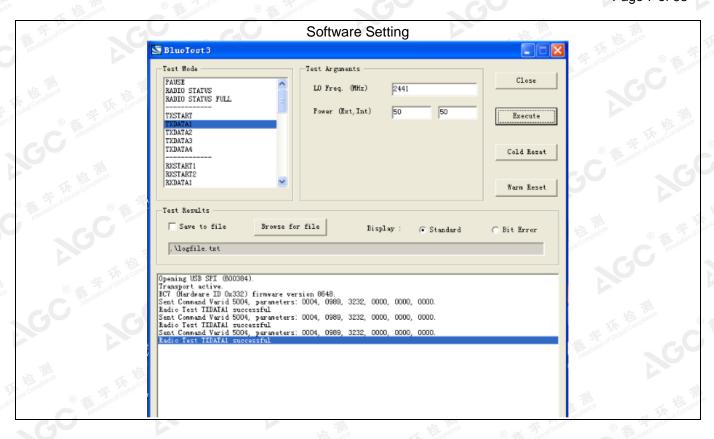
Note:

- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.

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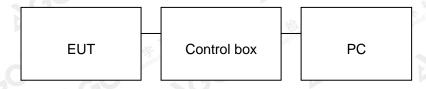
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth Earphone	Hangshi	S39	EUT,
2	Battery	XSH	401230	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	CSR	USB_SPI_TOOLS	A.E
5	USB Cable	N/A	1m unshielded	A.E

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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	N/A
§15.215	Bandwidth	Compliant

Note: N/A means it's not applicable to this item.

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6. TEST FACILITY

317, 510			
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012		
NVLAP Lab Code	600153-0		
Designation Number	CN5028		
Test Firm Registration Number	682566		
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0		

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7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI (10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	C AMESTRA	Mar. 01, 2016	Feb. 28, 2018

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50 % Managed Company (1997)	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field S	trengths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	3
0.490 ~ 1.705	30	24000/F(kHz)	40
1.705 ~ 30	30	30	S State County Company
30 ~ 88	3	100	40.0
88 ~ 216	3 Allestation	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 The state of the	Other:74.0 dB(μV)/m (Average)	n (Peak) 54.0 dB(μV)/m

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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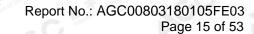


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The following table is the setting of spectrum analyzer and receiver.

	Spectrum Parameter	Setting
bal Compliance	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
(C) \$	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
0	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
是 Fallon of Coloral	Start ~Stop Frequency	1GHz~26.5GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 1.5MHz/ VBW 10Hz for Average
	Receiver Parameter	Setting
	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
-G	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
0	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

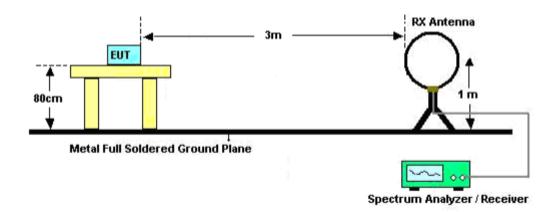
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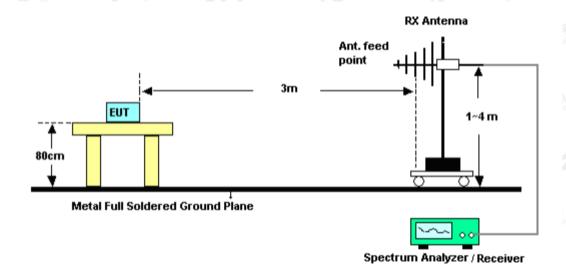


9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

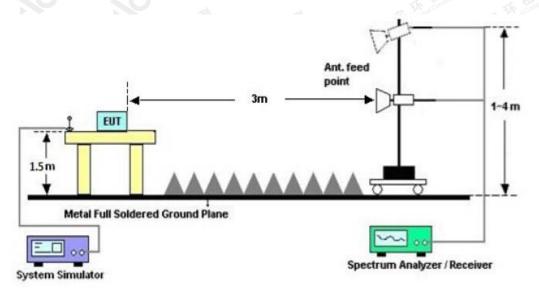


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

(Worst modulation: GFSK)

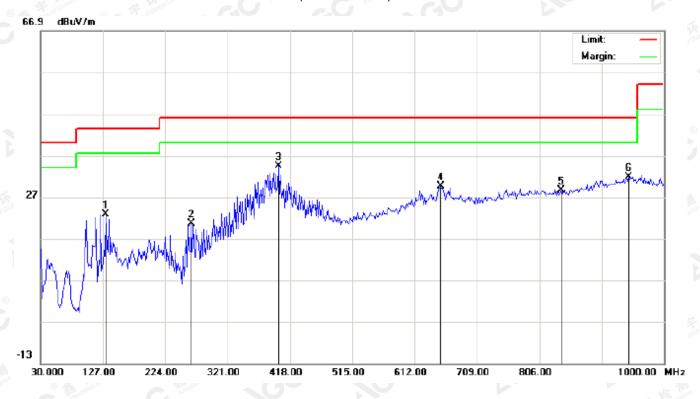
FOR BR/EDR

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



	0.00										
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		131.8500	11.35	11.39	22.74	43.50	-20.76	peak			
2		264.4166	11.27	9.35	20.62	46.00	-25.38	peak			
3	*	400.2167	15.36	19.08	34.44	46.00	-11.56	peak			
4		652.4167	5.62	23.92	29.54	46.00	-16.46	peak			
5		839.9500	1.31	27.31	28.62	46.00	-17.38	peak			
6		945.0333	1.88	29.86	31.74	46.00	-14.26	peak			

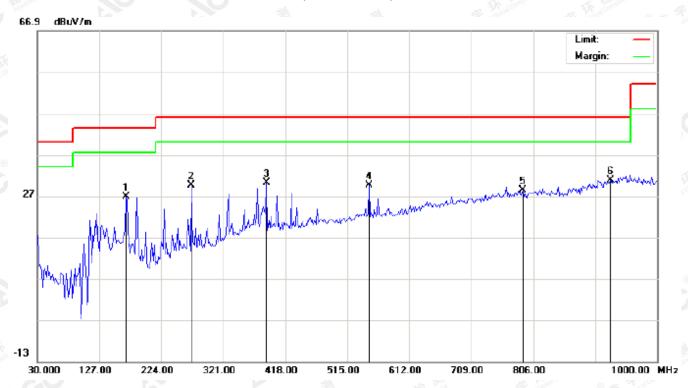
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ď,		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
9	1		169.0333	12.13	14.76	26.89	43.50	-16.61	peak			
	2		270.8833	15.05	14.53	29.58	46.00	-16.42	peak			
	3		388.9000	11.24	19.00	30.24	46.00	-15.76	peak			
Γ	4		548.9500	7.14	22.45	29.59	46.00	-16.41	peak			
Γ	5		789.8333	1.13	27.18	28.31	46.00	-17.69	peak			
	6	*	927.2500	1.43	29.37	30.80	46.00	-15.20	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

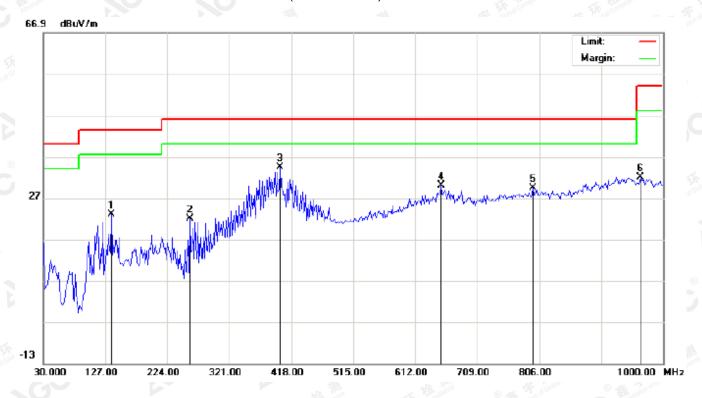
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
e.		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
38	1		136.7000	9.33	13.66	22.99	43.50	-20.51	peak			
	2		259.5667	13.53	8.53	22.06	46.00	-23.94	peak			
	3	*	400.2167	15.24	19.08	34.32	46.00	-11.68	peak			
	4		652.4167	6.02	23.92	29.94	46.00	-16.06	peak			
	5		796.3000	2.19	27.27	29.46	46.00	-16.54	peak			
	6		964.4333	2.12	29.86	31.98	54.00	-22.02	peak			

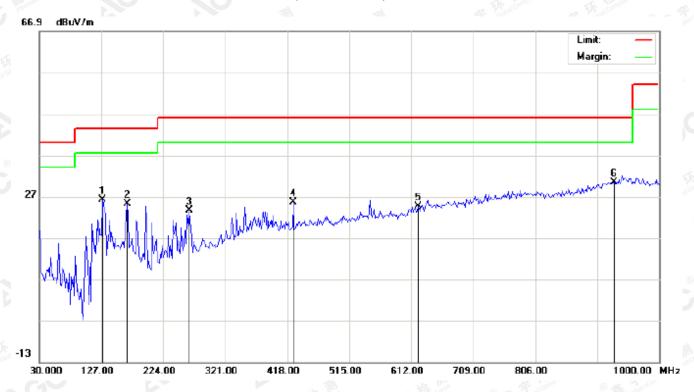
DECIII T. DACC

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL -VERTICAL



No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d	-	MHz	dBu∀	dB/m	dBu√/m	dBu√/m	dB		cm	degree	
1		128.6167	15.82	10.45	26.27	43.50	-17.23	peak			
2		167.4167	10.32	14.86	25.18	43.50	-18.32	peak			
3		264.4166	9.21	14.34	23.55	46.00	-22.45	peak			
4		427.7000	5.61	19.91	25.52	46.00	-20.48	peak			
5		623.3167	1.32	23.25	24.57	46.00	-21.43	peak	·		-
6	*	928.8667	1.03	29.41	30.44	46.00	-15.56	peak	·		

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

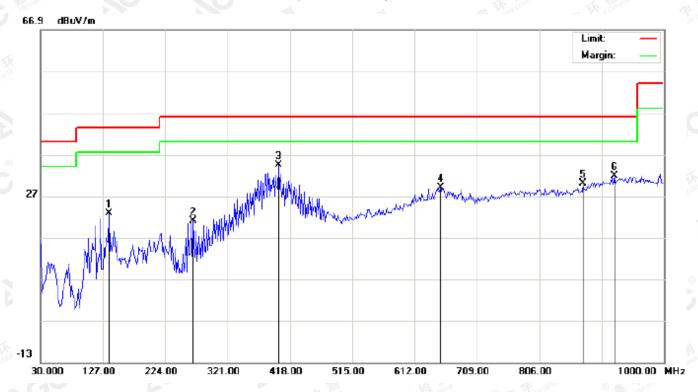
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4		-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
35	1		136.7000	9.05	13.66	22.71	43.50	-20.79	peak			
	2		267.6500	11.05	9.90	20.95	46.00	-25.05	peak			
	3	*	400.2167	15.30	19.08	34.38	46.00	-11.62	peak			
	4		652.4167	5.07	23.92	28.99	46.00	-17.01	peak			
	5		873.9000	2.06	27.93	29.99	46.00	-16.01	peak			
	6		922.4000	2.54	29.23	31.77	46.00	-14.23	peak			

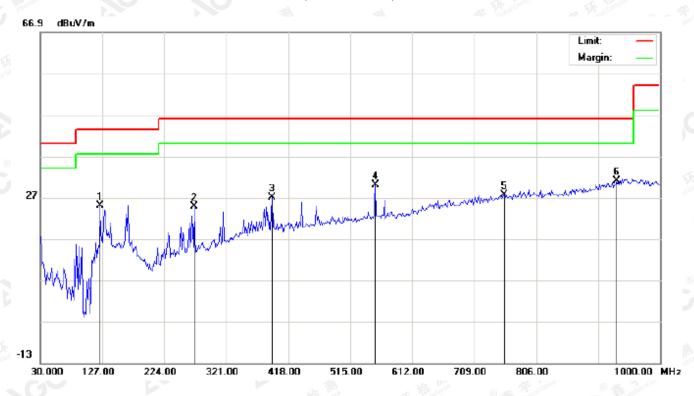
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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
<	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		123.7667	16.56	8.43	24.99	43.50	-18.51	peak			
2		270.8833	10.18	14.53	24.71	46.00	-21.29	peak			
3		392.1333	8.05	19.02	27.07	46.00	-18.93	peak			
4		553.8000	7.41	22.50	29.91	46.00	-16.09	peak			
5		755.8832	0.89	26.71	27.60	46.00	-18.40	peak			
6	*	932.1000	1.49	29.50	30.99	46.00	-15.01	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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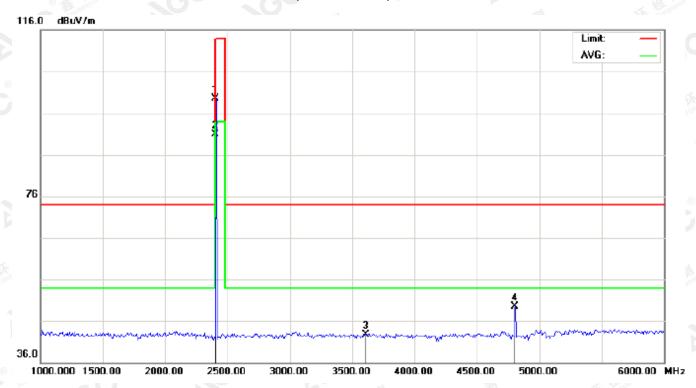
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RADIATED EMISSION ABOVE 1GHZ

(Worst modulation: GFSK)

FOR BR/EDR

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2402.000	89.21	10.32	99.53	114.00	-14.47	peak			
2	*	2402.000	80.50	10.32	90.82	94.00	-3.18	AVG	100	105	
3		3608.333	29.83	12.78	42.61	74.00	-31.39	peak			
4		4804.000	41.74	7.69	49.43	74.00	-24.57	peak			

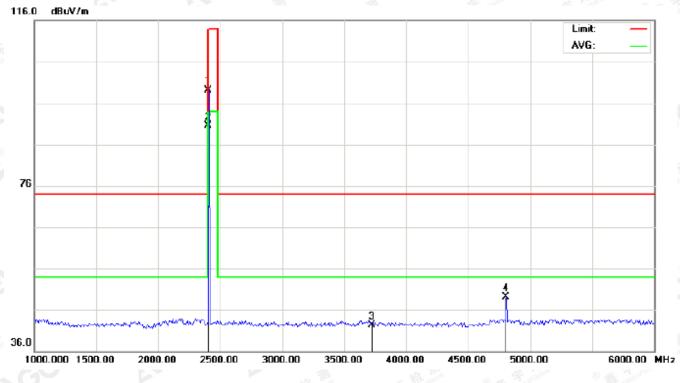
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



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	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
30	1		2402.000	88.82	10.32	99.14	114.00	-14.86	peak			
	2	*	2402.000	80.14	10.32	90.46	94.00	-3.54	AVG	100	302	
	3		3725.000	28.86	13.50	42.36	74.00	-31.64	peak			
	4		4804.000	41.38	7.69	49.07	74.00	-24.93	peak			

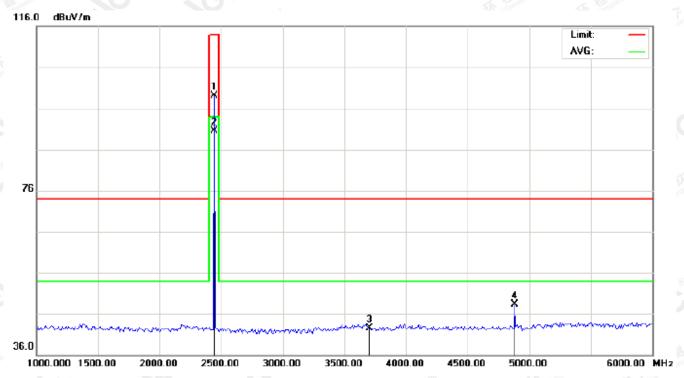
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
1		2441.000	88.74	10.36	99.10	114.00	-14.90	peak			
2	*	2441.000	80.05	10.36	90.41	94.00	-3.59	AVG	100	113	
3		3700.000	29.21	13.34	42.55	74.00	-31.45	peak			
4		4882.000	40.38	7.89	48.27	74.00	-25.73	peak			

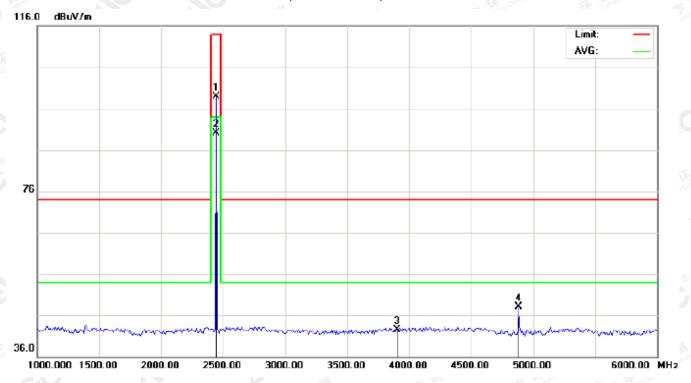
RESULT. PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
1		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
e V	1		2441.000	88.49	10.36	98.85	114.00	-15.15	peak			
	2	*	2441.000	79.66	10.36	90.02	94.00	-3.98	AVG	100	299	
	3		3900.000	27.94	14.57	42.51	74.00	-31.49	peak			
	4		4882.000	40.31	7.89	48.20	74.00	-25.80	peak			

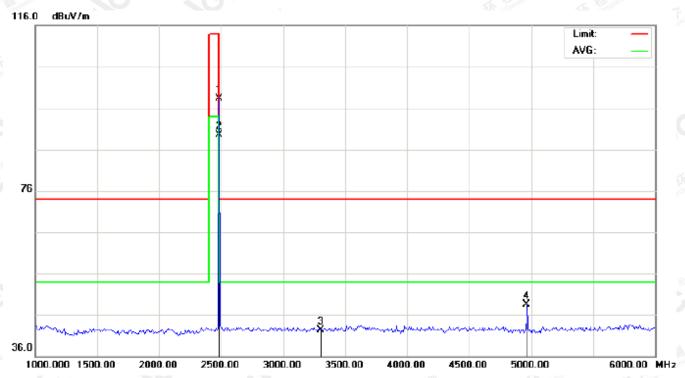
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
20	1		2480.000	87.97	10.41	98.38	114.00	-15.62	peak			
	2	*	2480.000	79.11	10.41	89.52	94.00	-4.48	AVG	100	107	
	3		3300.000	30.33	11.92	42.25	74.00	-31.75	peak			
	4		4960.000	40.51	8.09	48.60	74.00	-25.40	peak			

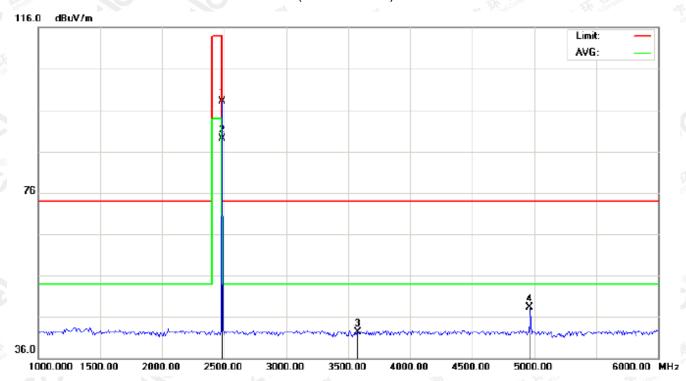
RESULT. PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	87.69	10.41	98.10	114.00	-15.90	peak			
2	*	2480.000	78.73	10.41	89.14	94.00	-4.86	AVG	100	301	
3		3575.000	29.74	12.57	42.31	74.00	-31.69	peak			
4		4960.000	40.16	8.09	48.25	74.00	-25.75	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	89.21	10.32	99.53	114	-14.47	Horizontal
2402	88.82	10.32	99.14	114	-14.86	Vertical
2441	88.74	10.36	99.10	114	-14.90	Horizontal
2441	88.49	10.36	98.85	114	-15.15	Vertical
2480	87.97	10.41	98.38	114	-15.62	Horizontal
2480	87.69	10.41	98.10	114	-15.90	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	80.50	10.32	90.82	94	-3.18	Horizontal	
2402	80.14	10.32	90.46	94	-3.54	Vertical	
2441	80.05	10.36	90.41	94	-3.59	Horizontal	
2441	79.66	10.36	90.02	94	-3.98	Vertical	
2480	79.11	10.41	89.52	94	-4.48	Horizontal	
2480	78.73	10.41	89.14	94	-4.86	Vertical	

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	88.90	10.32	99.22	114	-14.78	Horizontal
2402	88.46	10.32	98.78	114	-15.22	Vertical
2441	88.40	10.36	98.76	114	-15.24	Horizontal
2441	83.58	10.36	93.94	114	-20.06	Vertical
2480	81.55	10.41	91.96	114	-22.04	Horizontal
2480	81.33	10.41	91.74	114	-22.26	Vertical

Average value

9							
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	80.07	10.32	90.39	94	-3.61	Horizontal	
2402	79.78	10.32	90.10	94	-3.90	Vertical	
2441	79.62	10.36	89.98	94	-4.02	Horizontal	
2441	74.92	10.36	85.28	94	-8.72	Vertical	
2480	73.10	10.41	83.51	94	-10.49	Horizontal	
2480	72.68	10.41	83.09	94	-10.91	Vertical	

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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	88.42	10.32	98.74	114	-15.26	Horizontal	
2402	88.06	10.32	98.38	114	-15.62	Vertical	
2441	87.98	10.36	98.34	114	-15.66	Horizontal	
2441	83.26	10.36	93.62	114	-20.38	Vertical	
2480	81.14	10.41	91.55	114	-22.45	Horizontal	
2480	80.86	10.41	91.27	114	-22.73	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.66	10.32	89.98	94	-4.02	Horizontal	
2402	79.36	10.32	89.68	94	-4.32	Vertical	
2441	79.15	10.36	89.51	94	-4.49	Horizontal	
2441	74.54	10.36	84.90	94	-9.10	Vertical	
2480	72.73	10.41	83.14	94	-10.86	Horizontal	
2480	72.20	10.41	82.61	94	-11.39	Vertical	

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10. BAND EDGE EMISSION

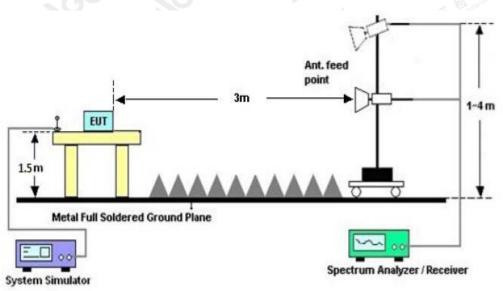
10.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)	Stop frequency(MHz)
2200	2405
2478	2500

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2374.933	32.20	10.29	42.49	74.00	-31.51	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	41.47	10.32	51.79	74.00	-22.21	peak			
4	*	2402.000	89.22	10.32	99.54	74.00	25.54	peak			
5	Х	2402.000	80.52	10.32	90.84	74.00	16.84	AVG	100	110	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



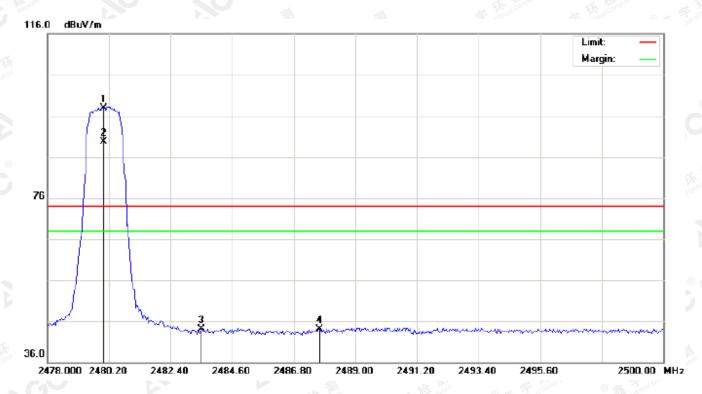
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2374.933	32.20	10.29	42.49	74.00	-31.51	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	41.47	10.32	51.79	74.00	-22.21	peak			
4	*	2402.000	89.22	10.32	99.54	74.00	25.54	peak			
5	Х	2402.000	80.52	10.32	90.84	74.00	16.84	AVG	100	110	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



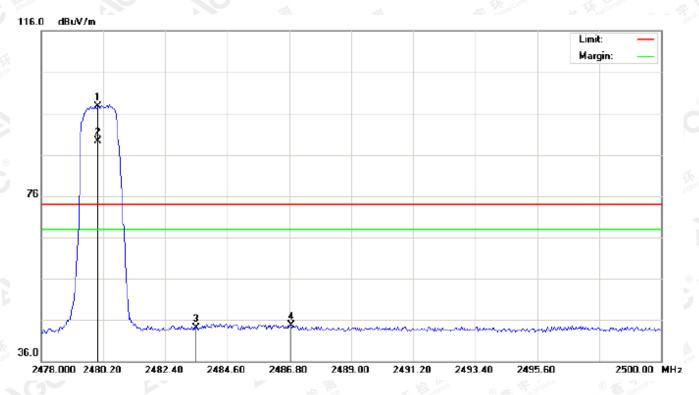
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	87.55	10.41	97.96	74.00	23.96	peak			
2	Х	2480.000	79.21	10.41	89.62	74.00	15.62	AVG	100	108	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2487.716	33.68	10.42	44.10	74.00	-29.90	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
sta	1	*	2480.000	87.32	10.41	97.73	74.00	23.73	peak			
	2	Х	2480.000	78.86	10.41	89.27	74.00	15.27	AVG	100	293	
	3		2483.500	33.76	10.41	44.17	74.00	-29.83	peak			
	4		2486.873	34.36	10.42	44.78	74.00	-29.22	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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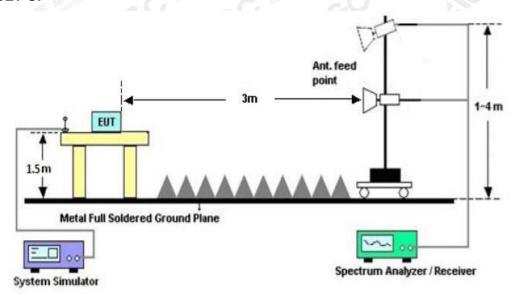
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

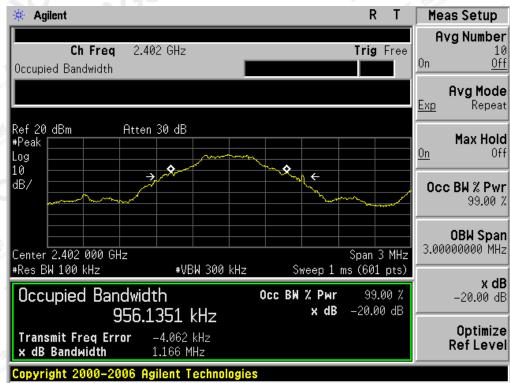
FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT						
	Measurement Result					
Applicable Limits	Test Data (MHz)			Dogult		
		99%OBW (MHz)	-20dB BW(MHz)	Result		
A Metabolismon (8) Attendation of Co.	Low Channel	0.956	1.166	PASS		
N/A	Middle Channel	0.909	1.104	PASS		
illi:	High Channel	0.914	1.088	PASS		

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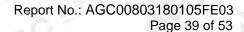
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

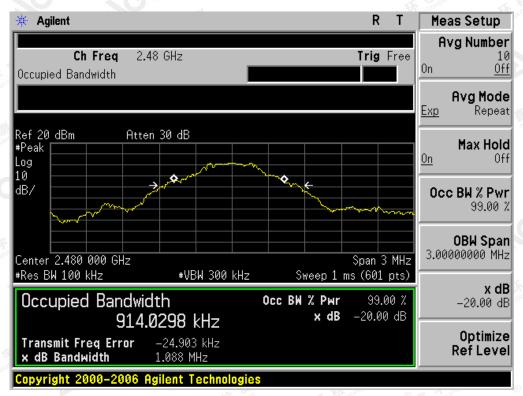


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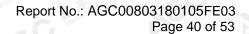




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



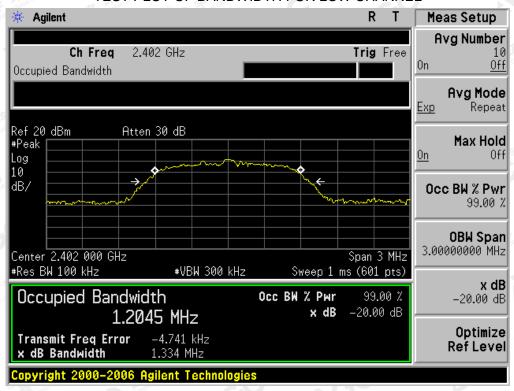
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			7 N COII.	The state of the s		
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT						
	Measurement Result					
Applicable Limits	Test Data (MHz)			D !!		
		99%OBW (MHz)	-20dB BW(MHz)	Result		
N/A TANGET TO THE TANGET THE TANG	Low Channel	1.205	1.334	PASS		
	Middle Channel	1.212	1.363	PASS		
	High Channel	1.226	1.387	PASS		

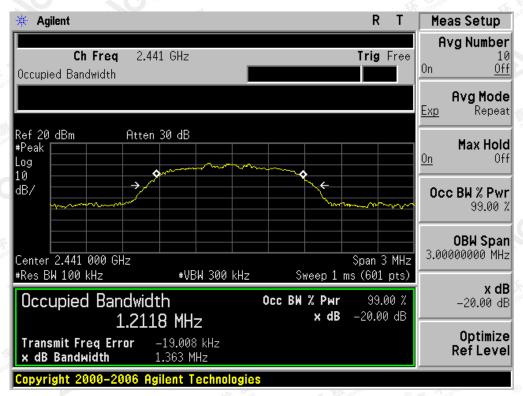
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



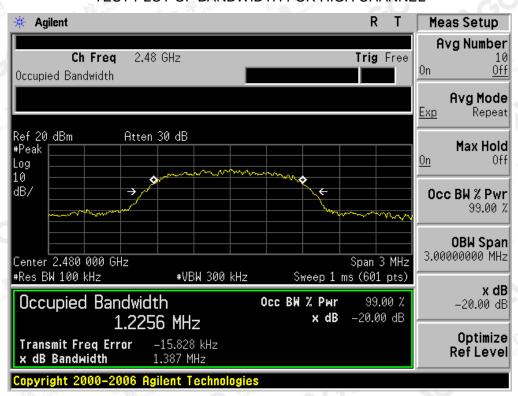
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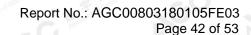
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



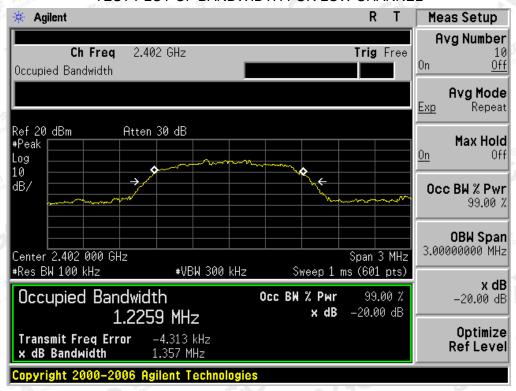
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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.226 1.357 PASS Middle Channel 1.222 1.373 **PASS** High Channel 1.198 1.329 **PASS**

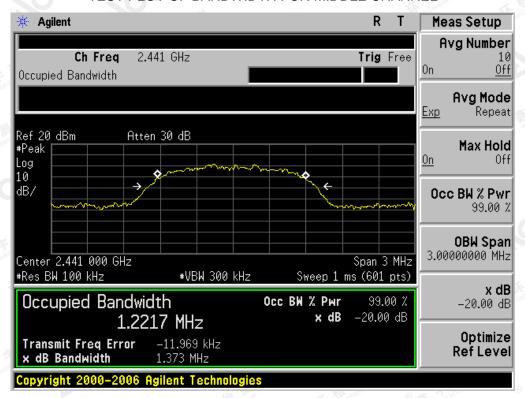
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



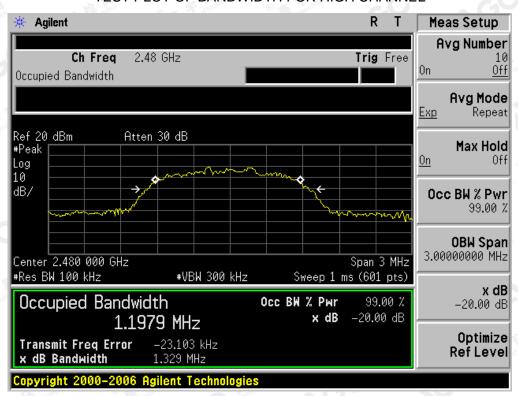
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

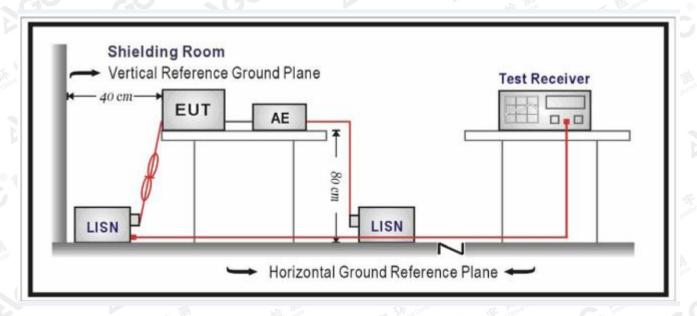
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hz power by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

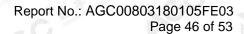
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT is not work when charging.

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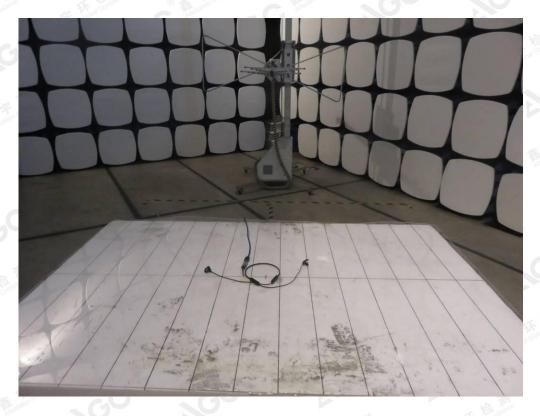




APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP

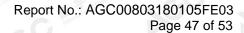




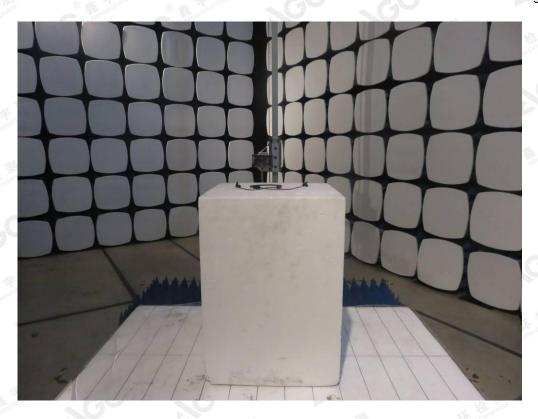
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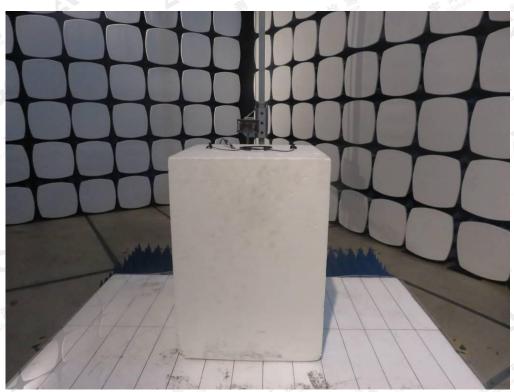
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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



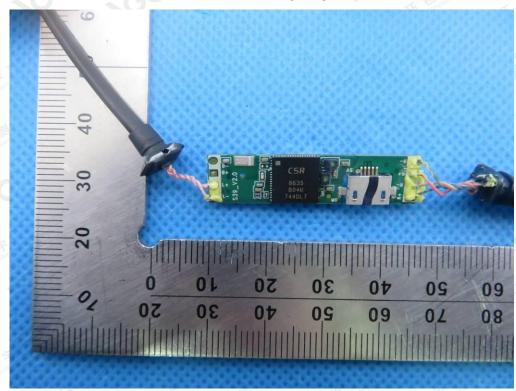
OPEN VIEW OF EUT



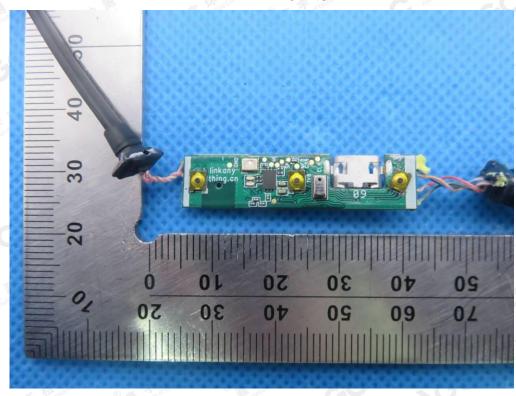
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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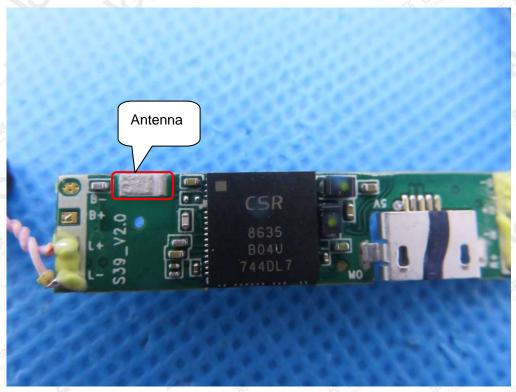
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INTERNAL VIEW OF EUT-3



----END OF REPORT----

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